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PATTERN OF USSR ELECTRIC POWER REQUIREMENTS

The following tables and related information on USSR electric power requirements have been taken mainly from captured German and Japanese documents which were based mostly on original Soviet sources. They may give some indication of the consumption pattern of electric power in the USSR.

Numbers in parentheses refer to appended sources.

Consumers of Electric Power (1)  
(billion kw-h)

	<u>1935</u>	<u>1937</u>	<u>1937</u> (%)
Industry	17,970	25,112	69.0
Public utilities (public lighting, households)	3,760	3,420	9.8
Transportation	570	1,178	3.2
Agriculture	190	330	0.9
Own consumption of power plants and transmission network, as well as other items not listed above	3,410	6,360	17.1
Total	25,900	36,400	100.0

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## Consumption of Electric Power by Industries in 1936 (2)

	<u>Billion Kw-h</u>	<u>Percent</u>
Industries	23.1	
Including:		
Fuel	2.8	12.1
Steel	4.0	17.3
Nonferrous metals	2.1	9.1
Machine building	4.8	20.8
Maintenance	1.9	8.2
Electrochemical	4.0	17.3

Annual Consumption of Electric Power by Industries (2)  
(percent)

	<u>1913</u>	<u>1926</u>	<u>1928</u>	<u>1932</u>	<u>1935</u>	<u>1936</u>
Industry and construction	80.0	68.1	68.4	68.6	69.6	70.1
Transportation	--	2.5	2.0	1.9	2.4	2.1
Public utilities	20.0	20.0	10.0	16.4	14.2	14.0
Agriculture	--	0.8	0.7	0.6	0.9	0.9
Power stations and losses in electric transmission	--	8.6	9.7	12.5	12.9	12.9
Total	100.0	100.0	90.8 <u>[sic]</u>	100.0	100.0	100.0

Sources of Energy in 1939 (1)  
(percent)

Coal	53.5
Including:	
Donets coal	11.2
Donets culm	19.6
Moscow coal	10.7
Ural coal	8.7
Siberian coal	2.2
Central Asia coal	1.1
Peat	19.9
Including:	
Lump peat	15.0
Milled peat	4.9
Water power	13.7
Petroleum	8.1
Natural gas	3.2
Others	1.6
Total	100.0

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The regional steam-electric power plants obtained 76.2 percent of their fuel requirements from local fuels, while 23.8 percent were imported from other regions in 1939. Fuel consumption according to types of fuel was as follows (in percent):(3)

Donets coal	13.00
Donets culm	22.80
Moscow coal	12.40
Ural coal	10.10
Siberian coal	2.50
Central Asia coal	1.30
Lump peat	17.40
Milled peat	5.70
Shale	.01
Petroleum	9.40
Gas (natural)	3.70
Others	1.20

## Recent Consumption Data

A total of 1,286,500 kilowatt-hours is sufficient to operate for one month two medium-capacity metalworking plants.(4)

When the new electric power projects are completed, one kilowatt-hour will perform any of the following operations:

Manufacture two pairs of footwear,  
Manufacture 10 meters of cotton cloth,  
Manufacture and pack 42 kilograms of sugar, or  
Bake 88 kilograms of bread and rolls.(5)

## SOURCES

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2. Electric Power Industry of the USSR, published by the Research Department of the South Manchuria Railway Co, 1941, [redacted]
3. Elektricheskiye Stantsii, No 12, Dec 1940.
4. Vechernyaya Moskva, 6 Jun 1951.
5. Ogonek, No 30, Jul 1951.

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